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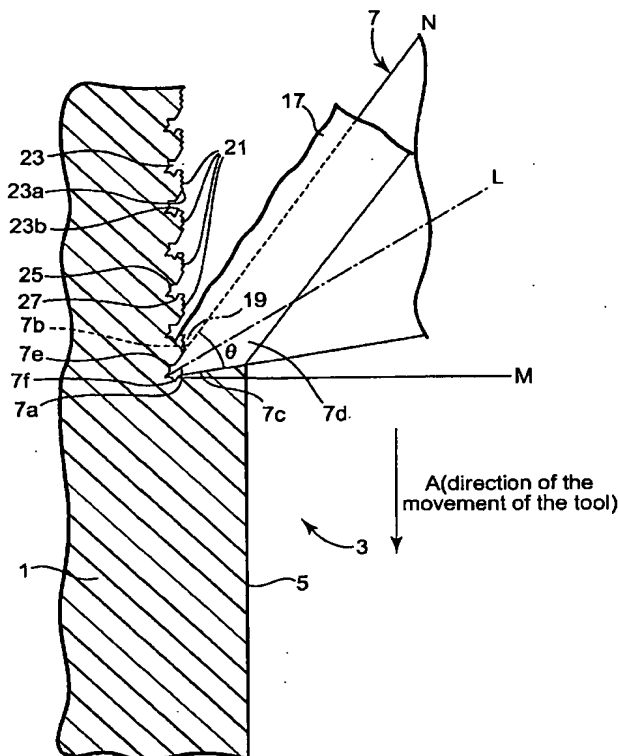
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(54) Title: CUTTING TOOLS AND ROUGHENED ARTICLES USING SURFACE ROUGHENING METHODS



(57) Abstract: The disclosure relates to surface rough-  
ening methods in which a cutting tool having a radial  
cutting blade with first and second cutting edges is fed  
along a longitudinal axis of an article while rotating the  
cutting tool about the axis. The first cutting edge forms a  
first machined pattern of peaks (19) and valleys (23) on  
a surface of the article, and the second cutting edge re-  
moves at least a portion of the peaks to form roughened  
fracture surfaces in a second machined pattern defining  
an arrangement of grooves, corresponding to the valleys,  
separated by lands, corresponding to the roughened frac-  
ture surfaces. The first (23a) and second (23b) walls may  
include concave regions (25) within the grooves. The  
disclosure also provides cutting tools useful in practic-  
ing the methods, and cylindrical articles having interior  
or exterior surfaces roughened using the methods. The  
methods may have applications to fabrication of cylin-  
der blocks for internal combustion engines.



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